

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference OPP020787KR	FOR FURTHER ACTION see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
International application No. PCT/KR 03/01476	International filing date (day/month/year) 23 July 2003 (23.07.2003)	(Earliest) Priority Date (day/month/year) 1 August 2002 (01.08.2002)
Applicant SAMSUNG ELECTRO-MECHANICS CO., LTD		

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 6 sheets.

☐ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international search was carried out on the basis of the sequence listing:

☐ contained in the international application in written form.

☐ filed together with the international application in computer readable form.

☐ furnished subsequently to this Authority in written form.

☐ furnished subsequently to this Authority in computer readable form.

☐ the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.

☐ the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

2. ☒ Certain claims were found unsearchable (See Box I).

3. ☐ Unity of invention is lacking (See Box II).

4. With regard to the title,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the abstract,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the drawings to be published with the abstract is Figure No.: 1a

☒ as suggested by the applicant.

☐ None of the figures.

☐ because the applicant failed to suggest a figure.

☐ because this figure better characterizes the invention.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/KR 03/01476-0

Box I Observations where certain claims were found unsearchable (Continuation of Item 1 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☒ Claims Nos.: 5,8
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
Compositions have to be characterized by their components and their ratios, amounts etc. A characterization by physical property values is only allowable if it is not possible to characterize a subject matter clearly and concisely by features concerning its chemical composition, only. Since this is not the case for the present claims 5 and 8, the characterization of these claims by physical parameters is not allowable.
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
☐ No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/KR 03/0176-0

CLASSIFICATION OF SUBJECT MATTER

IPC⁷: C09K 19/04, 19/30,

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC⁷: C09K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

WPI, EPODOC Databases, REGISTRY and CAPLUS Databases

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P,X	WO 03/035798 A1 (SAMSUNG ELECTRONICS CO., LTD.) 1 May 2003 (01.05.03) <i>the whole document, espl. pages 11-14, claims.</i>	1,2,5,6
P,X	JP 2003 129052 A2 (DAINIPPON INK AND CHEMICALS, INC.), 8 May 2003 (08.05.03) , (abstract) CA [online], Chemical Abstracts online [retrieved on 11.9.2003]. Retrieved from: CAPLUS Database, STN-International, Karlsruhe (DE), CAPLUS Accession no. 2003:349562 and Computer-translation of JP 2003129052 A2, retrieved via the Internet. Retrieved from the Japanese Patent Office on 11.9.2003, URL< http://www4.ipdl.jpo-miti.go.jp/cgi-bin/tran_web CGI_ejje?N0000=60&N0120=01&N2001=2&N3001=H2003-129052 >; <i>CAPLUS and PAJ abstracts and Computer translation of the Patent claims.</i>	1,3,6

☒ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

* Special categories of cited documents:

- „A“ document defining the general state of the art which is not considered to be of particular relevance
- „E“ earlier application or patent but published on or after the international filing date
- „L“ document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- „O“ document referring to an oral disclosure, use, exhibition or other means
- „P“ document published prior to the international filing date but later than the priority date claimed

- „T“ later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- „X“ document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- „Y“ document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- „&“ document member of the same patent family

Date of the actual completion of the international search

11 September 2003 (11.09.2003)

Date of mailing of the international search report

20 October 2003 (20.10.2003)

Name and mailing address of the ISA/AT
Austrian Patent Office
Dresdner Straße 87, A-1200 Vienna
Facsimile No. 1/53424/535

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WENIGER S.
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International application No.

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5578241 A (H. PLACH et al.) 26 November 1996 (26.11.96) <i>the whole document, esp. claim and columns 6-8.</i>	1,2
A	<i>the whole document, esp. claim and columns 6-8.</i> —	3-15

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Further remarks:

1) The search has been limited to those parts of the claims which - from the chemical point of view - find sufficient support by the disclosure of the application, namely to compositions comprising a compound of formula 1 with:

- A being cyclohexyl exclusively and
- B being CH₂- CH₂-;

2) the meanings of the "R1" residue is not clear, since by the giving of the molecular formula, only, the residues are not characterized sufficiently, because for examples it cannot be verified which bonds are comprised in these residues;

INTERNATIONAL SEARCH REPORT
Information on patent family members

International Application No.
PCT/KR 97/01476-0

Patent document cited in search report			Publication date	Patent family member(s)	Publication date
JP	A	20031290 52A2		none	
US	A	5578241	1996-11-26	none	
WO	A	35798		none	